

**MONTH : NOVEMBER**

**SESSION : 19**

**CLASS : V**

**SUBJECT : MATHEMATICS**

**CHAPTER NUMBER: 15**

**CHAPTER NAME : GEOMETRY**

**SUB-TOPIC : SYMMETRY AND TWO LINES OF  
SYMMETRY**

**EX-15 C AND D**

**CHANGING YOUR TOMORROW**

## **LEARNING OBJECTIVE :**

**Enable learners :**

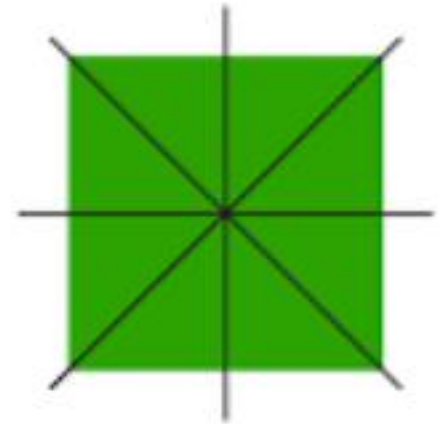
- **To understand the meaning of symmetry.**
- **To draw the lines of symmetry.**
- **To draw mirror image.**

# SYMMETRY

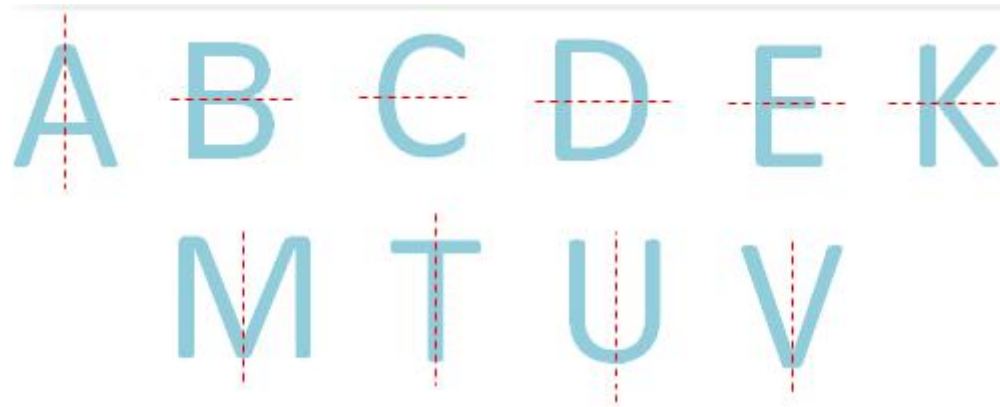
When a given figure is divided by a line and we get two figures that are exactly same shape and size, we say that they are symmetry.



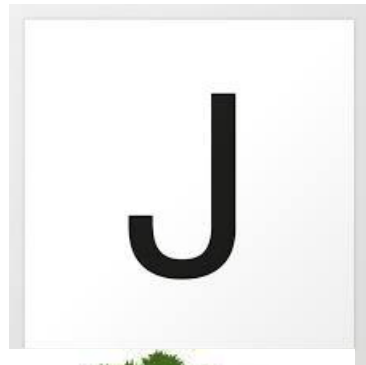
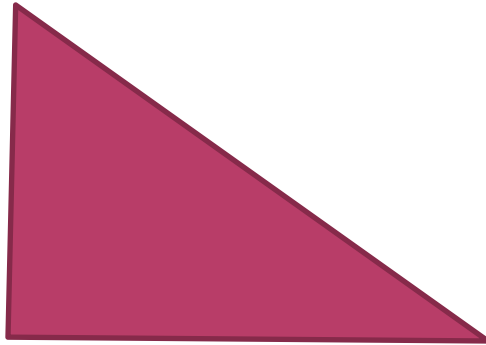
# SYMMETRY



We can use more than one line of symmetry to divide the given figure equally.

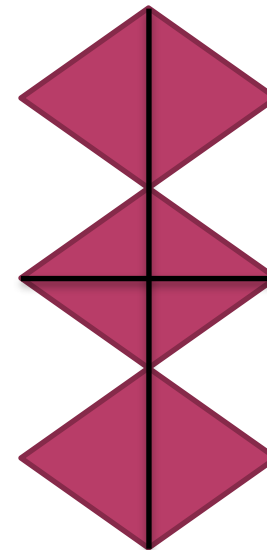
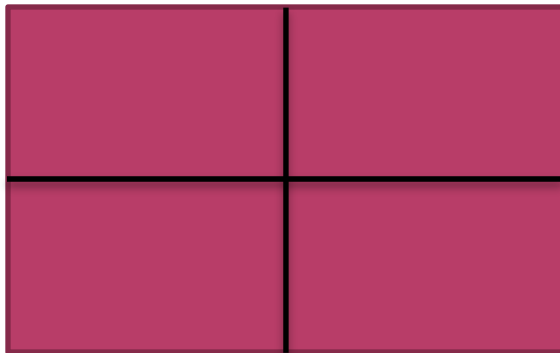
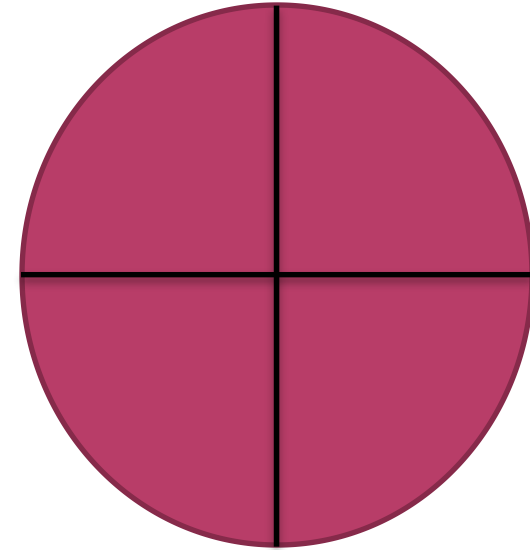
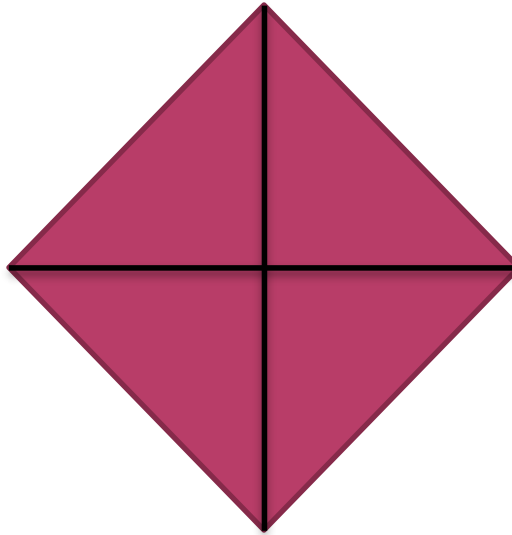


Some figures and letters do not show symmetry.



# TWO LINES OF SYMMETRY.

We can use two or more lines of symmetry to create symmetrical figures.



# EXERCISE 15 C

1 Identify and tell which of the following are symmetrical.

(a)



Symmetrical

(b)



(c)



Symmetrical

(d)



(e)



Symmetrical

(f)



Symmetrical

(g)

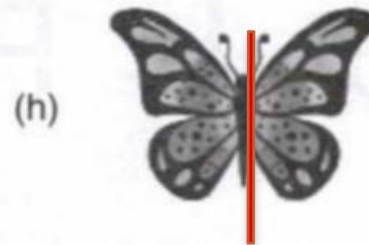
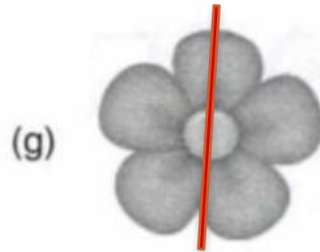
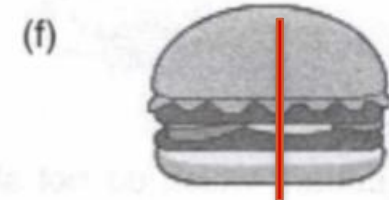
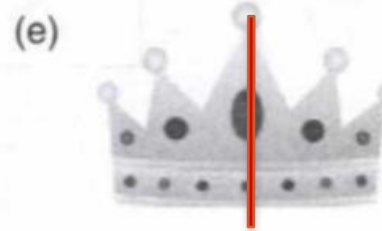
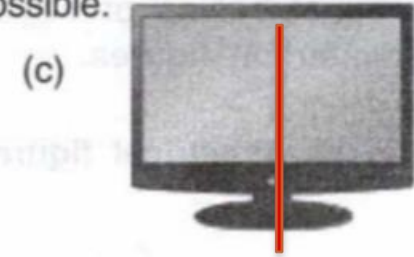
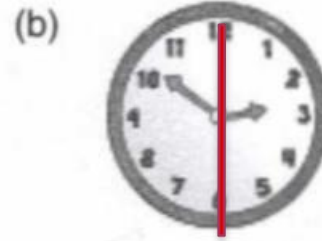
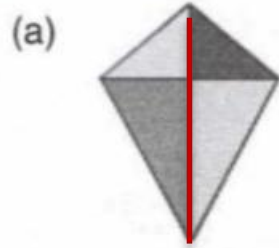


(h)



# EXERCISE 15 C

2 Draw a line of symmetry in the following, wherever possible.





# EXERCISE 15 C

3. Draw a line of symmetry in letters between A to Z , wherever possible.

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

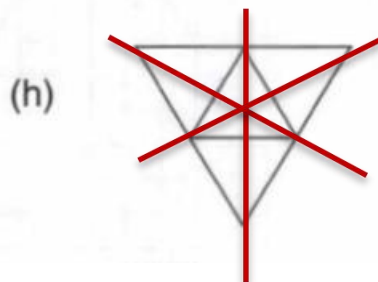
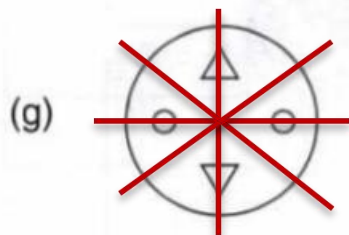
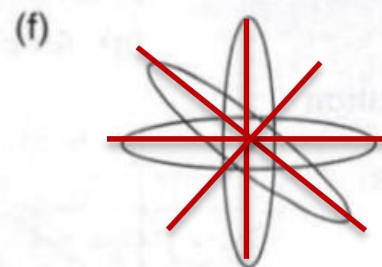
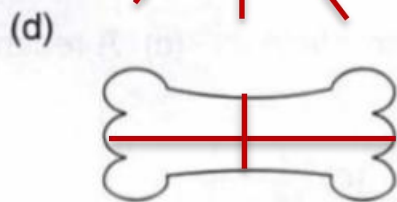
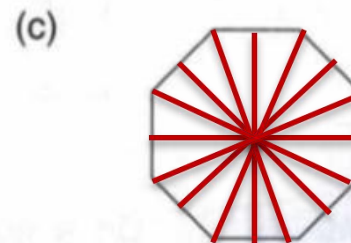
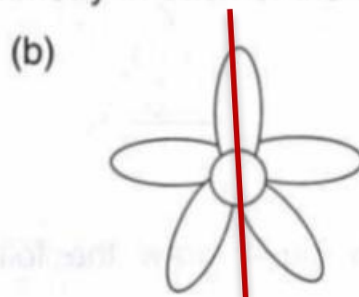
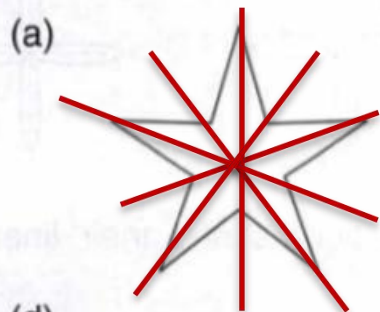
X

Y

Z

# EXERCISE 15 D

1 Draw all possible lines of symmetry in each of the following.



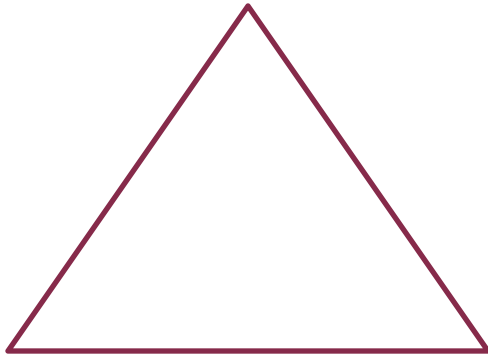
## EXERCISE 15 D

a.



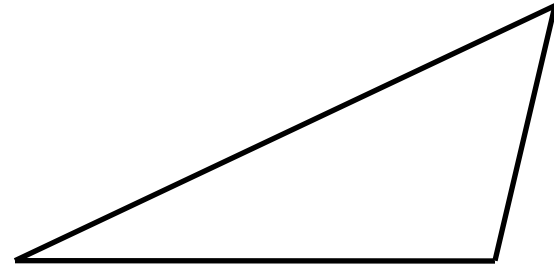
Two lines of symmetry.

b.



Three lines of symmetry.

c.



No line of symmetry.

d.



One line of symmetry.

## EXERCISE 15 D

d.



0 line of symmetry.

g.



No line of symmetry.

f.



four lines of symmetry.

h.

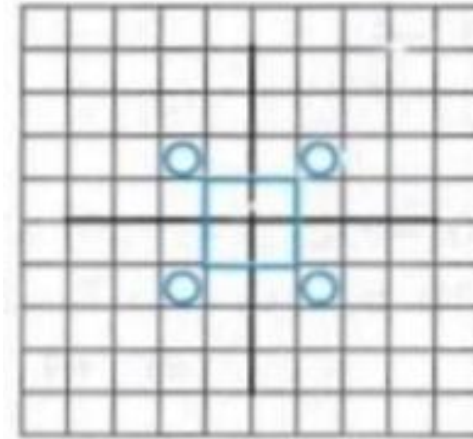
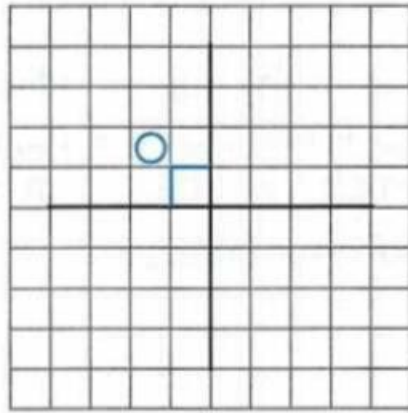


One line of symmetry

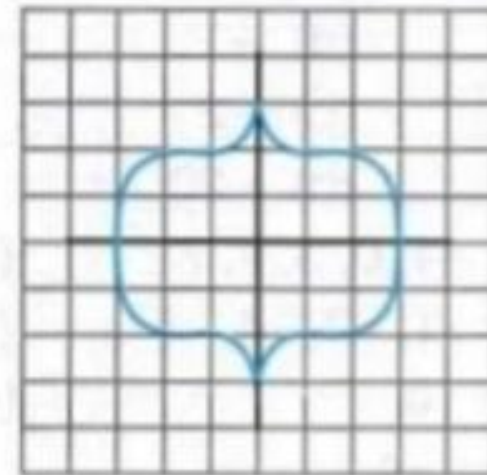
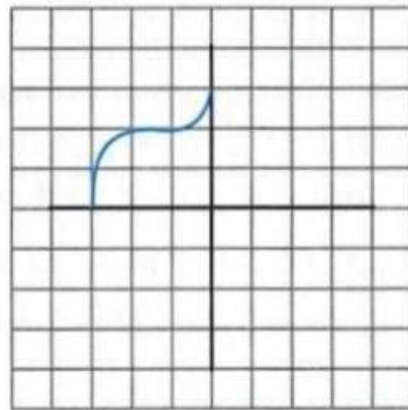
# EXERCISE 15 D

3. Complete the following figure using graph paper.

a.

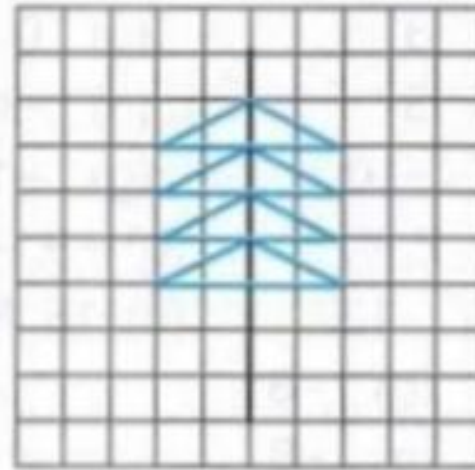
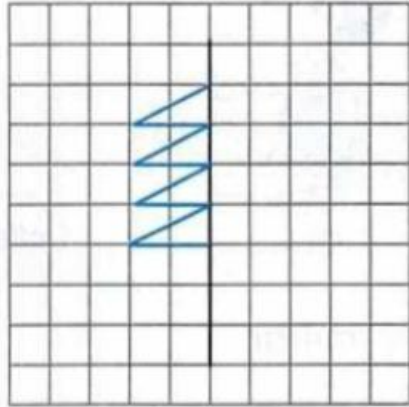


b.

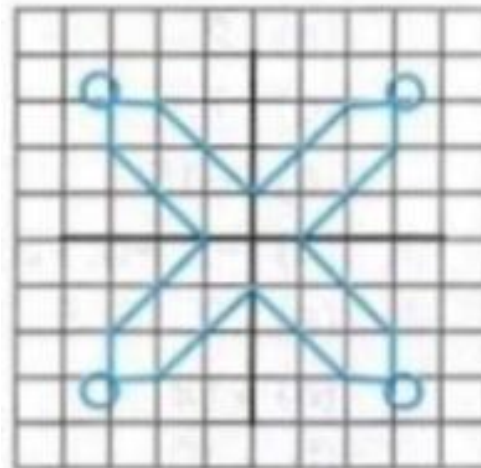
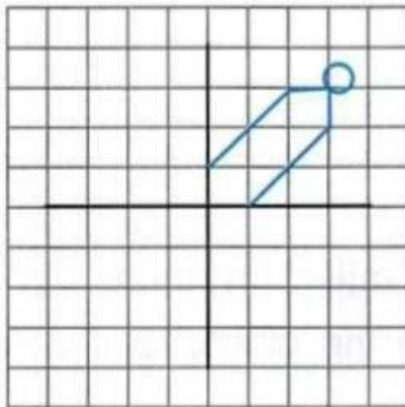


# EXERCISE 15 D

c.



d.





## Complete Exercise – 15 D.

The logo for 'Learning Outcomes' features the words 'Learning' and 'Outcomes' in a large, bold, black font with a yellow outline. To the left of the text is a blue graduation cap with a tassel. Above the letter 'i' in 'Learning' is a red apple with a green leaf.

# Learning Outcomes

## Students are able:

- To understand the meaning of symmetry.
- To draw the lines of symmetry.
- To draw mirror image.



**THANKING YOU**  
**ODM EDUCATIONAL GROUP**